Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Measurement Challenge**

***Guidelines****:*

1. You may complete as many of the activities listed as you would like within the time period given.

2. You may choose any combination of activities.

3. Your goal is 100 points. You may earn up to \_\_\_\_\_\_ points in extra credit.

4. You may be as creative as you like within the guidelines listed below.

5. You must show your plan to your teacher by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Activities may be turned in at any time during the working time period. They will be graded and

recorded on this sheet as you continue to work, so keep it safe!

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Plan to Do** | **Activity to complete:** | **Point Value** | **Date Completed** | **Points Earned** |
|  | Create a poster that shows how to find the perimeter of at least three different shapes. | 15 |  |  |
|  | Create a poster that shows how to find the area of at least three different shapes. | 15 |  |  |
|  | Read *Counting On Frank* (Clement 1994), then make up your own crazy measuring problem. | 15 |  |  |
|  | Find out how far you would have walked if you walked a million steps. Choose two different units of measurement. Show your results on chart paper. | 20 |  |  |
|  | Write a letter to the president telling him which system of measurement (metric or U.S. customary) Americans should use and why! | 20 |  |  |
|  | Create flashcards | 20 |  |  |
|  | Design a new unit for measuring length. Create a brochure that explains the unit, tells how it is measured, and provides equivalents to our current units. | 25 |  |  |
|  | Create your own educational PowerPoint on measuring perimeter and area. | 25 |  |  |
|  | Create a board game in which players will need to calculate and measure the perimeter, area, and volume of objects in order to play. | 25 |  |  |
|  | An alien visiting Earth is confused by the different ways that we measure. Create a book (including pictures) to explain the difference between customary and metric measurements and the many different ways that we measure objects. | 25 |  |  |
|  | Free choice: Make your proposal on notebook paper and get approved before starting work. |  |  |  |

**Total number of points you are planning to earn. Total points earned:**

I am planning to complete \_\_\_ activities that could earn up to a total of \_\_\_\_\_\_ points.

Teacher’s initials \_\_\_\_\_ Student’s signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_